04CD

RAW SEQUENCE LISTING ERROR REPORT



The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/808,832Source: 0/16Date Processed by STIC: 3/30/2001

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1). INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)

PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE <u>CHECKER</u> <u>VERSION 3.0 PROGRAM</u>, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW:

Checker Version 3.0

The Checker Version 3.0 application is a state-of the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 – 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST.25.

Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO). Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

Checker Version 3.0 can be down loaded from the USPTO website at the following address: http://www.uspto.gov/web/offices/pac/checker



ERROR DETECTED SUGGESTED CORRECTION SERIAL NUMBER: 09/808,832

ATTN	: NEW RULES CASES: P	LEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE
1	Wrapped Nucleics	The number/text at the end of each line "wrapped" down to the next line.
		This may occur if your file was retrieved in a word processor after creating it.
		Please adjust your right margin to .3, as this will prevent "wrapping".
2	Wrapped Aminos	The amino acid number/text at the end of each line "wrapped" down to the next line.
		This may occur if your file was retrieved in a word processor after creating it.
		Please adjust your right margin to .3, as this will prevent "wrapping".
3	Incorrect Line Length	The rules require that a line not exceed 72 characters in length. This includes spaces.
4	Misaligned Amino Acid	The numbering under each 5th amino acid is misaligned. This may be caused by the use of tabs
	Numbering	between the numbering. It is recommended to delete any tabs and use spacing between the numbers.
5	Non-ASCII	This file was not saved in ASCII (DOS) text, as required by the Sequence Rules.
		Please ensure your subsequent submission is saved in ASCII text so that it can be processed.
6	Variable Length	Sequence(s) contain n's or Xaa's which represented more than one residue.
		As per the rules, each n or Xaa can only represent a single residue.
		Please present the maximum number of each residue having variable length and
		indicate in the (ix) feature section that some may be missing.
7	Patentin ver. 2.0 "bug"	A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid
		sequence(s) Normally, Patentin would automatically generate this section from the
		previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section
	i	to the subsequent amino acid sequence. This applies primarily to the mandatory <220>-<223>
		sections for Artificial or Unknown sequences.
8	Skipped Sequences	Sequence(s) missing. If intentional, please use the following format for each skipped sequence:
	(OLD RULES)	(2) INFORMATION FOR SEQ ID NO:X: (3) SEQUENCE CHARACTERISTICS:(On not inport any boodings under "SEQUENCE CHARACTERISTICS")
		(i) SEQUENCE CHARACTERISTICS:(Do not insert any headings under "SEQUENCE CHARACTERISTICS")
		(xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: This sequence is intentionally skipped
		This sequence is intermonially supper
		Please also adjust the "(iii) NUMBER OF SEQUENCES:" response to include the skipped sequence(s).
9	Skipped Sequences	Sequence(s) missing. If intentional, please use the following format for each skipped sequence.
	(NEW RULES)	<210> sequence id number
		<400> sequence id number 000
10	Use of n's or Xaa's	Lice of n'e and/or Vac's have been detected in the Coguence Listing
10	(NEW RULES)	Use of n's and/or Xaa's have been detected in the Sequence Listing. Use of <220> to <223> is MANDATORY if n's or Xaa's are present.
	(NEW ROLES)	In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.
11	Use of <213>Organism	Sequence(s) are missing this mandatory field or its response.
	(NEW RULES)	are missing this mandatory field of its response.
12	Use of <220>Feature	Sequence(s) are missing the <220>Feature and associated headings.
	(NEW RULES)	Use of <220> to <223> is MANDATORY if <213>ORGANISM is "Artificial Sequence" or "Unknown"
-	//	Please explain source of genetic material in <220> to <223> section.
	, (_	(See "Federal Register," 6/01/98, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of new Rules)
13	Patentin ver. 2.0 "bug"	Please do not use "Copy to Disk" function of Patentln version 2.0. This causes a corrupted
		file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing).

AMC - Biotechnology Systems Branch - 4/05/2001

Instead, please use "File Manager" or any other means to copy file to floppy disk.

OIPE

```
PATENT APPLICATION: US/09/808,832
                                                                   TIME: 15:15:26
                                                                               Does Not Comply
                       Input Set : A:\PTO.txt
                       Output Set: N:\CRF3\03302001\I808832.raw
                                                                          Corrected Diskette Needed
      3 <110> APPLICANT: DuPont Pharmaceuticals Company
      5 <120> TITLE OF INVENTION: Peptidase-cleavable, targeted antineoplastic drugs and their
therapeutic
      6
               use
      8 <130> FILE REFERENCE: PH-7134
C--> 10 <140> CURRENT APPLICATION NUMBER: US/09/808,832
C--> 10 <141> CURRENT FILING DATE: 2001-03-15
     10 <150> PRIOR APPLICATION NUMBER: 60/189,387
     11 <151> PRIOR FILING DATE: 2000-03-15
     13 <160> NUMBER OF SEQ ID NOS: 210
     15 <170> SOFTWARE: PatentIn version 3.0
     17 <210> SEQ ID NO: 1
                                      per 1.823 of Sequence Rubs, wabid response

comment qui source of

globalic

methoxy-benzenesulfonyl-beta-alanine

Arbificial Sequence

methoxy-benzenesulfonyl-beta-alanine

furnary
     18 <211> LENGTH: 5
     19 <212> TYPE: PRT
     20 <213> ORGANISM ( Artificial
     22 <220> FEATURE:
     23 <223> OTHER INFORMATION
                                   no comment
     25 <220> FEATURE:
     26 <221> NAME/KEY: MOD_RES
     27 <222> LOCATION: (1)..(1)
     28 <223> OTHER INFORMATION: 4-methoxy-benzenesulfonyl-beta-alanine
     31 <220> FEATURE:
     32 <221> NAME/KEY: MOD_RES
     33 <222> LOCATION: (3)..(3)
     34 <223> OTHER INFORMATION: homophenylalanine
     37 <400> SEQUENCE: 1
    39 Xaa Gly Xaa Tyr Leu
     40 1
     42 <210> SEO ID NO: 2
     43 <211> LENGTH: 5
     44 <212> TYPE: PRT
     45 <213> ORGANISM
                         Artificial
     47 <220> FEATURE:
                                   no comment
     48 <223> OTHER INFORMATION(:
     50 <220> FEATURE:
     51 <221> NAME/KEY: MOD_RES
     52 <222> LOCATION: (1)..(1)
     53 <223> OTHER INFORMATION: 1,2-C6H4(CO)2-histidine
     56 <220> FEATURE:
     57 <221> NAME/KEY: MOD_RES
     58 <222> LOCATION: (3)..(3)
     59 <223> OTHER INFORMATION: homophenylalanine
     62 <400> SEQUENCE: 2
   ≯ 64 Xaa Gly Xaa Tyr Leu
     65 1
     67 <210> SEQ ID NO: 3
```

RAW SEQUENCE LISTING

68 <211> LENGTH: 5 69 <212> TYPE: PRT

```
PATENT APPLICATION:
                                       US/09/808,832
                                                           TIME: 15:15:26
                 Input Set : A:\PTO.txt
                 Output Set: N:\CRF3\03302001\I808832.raw
70 <213> ORGANISM Artificia
 72 <220> FEATURE:
 73 <223> OTHER INFORMATION: (no comment
75 <220> FEATURE:
76 <221> NAME/KEY: MOD_RES
77 <222> LOCATION: (1)..(1)
78 <223> OTHER INFORMATION: acetyl-proline
81 <400> SEQUENCE: 3
83 Xaa Leu Gly Leu Leu
86 <210> SEQ ID NO:
87 <211> LENGTH: 5
88 <212> TYPE: PRT
89 <213> ORGANISM: (Artificial
91 <220> FEATURE:
92 <223> OTHER INFORMATION: no comment
94 <220> FEATURE:
95 <221> NAME/KEY: MOD_RES
96 <222> LOCATION: (1)..(1)
97 <223> OTHER INFORMATION: acetyl-proline
100 <400> SEQUENCE: 4
\sqrt{1}02 Xaa Leu Gly Leu Leu
103 1
105 <210> SEQ ID NO: 5
106 <211> LENGTH: 5
107 <212> TYPE: PRT
108 <213> ORGANISM:
                    Artificial
110 <220> FEATURE:
111 <223> OTHER INFORMATION no comment
113 <220> FEATURE:
114 <221> NAME/KEY: MOD_RES
115 <222> LOCATION: (2)..(2)
116 <223> OTHER INFORMATION: beta alanine
119 <220> FEATURE:
120 <221> NAME/KEY: MOD_RES
121 <222> LOCATION: (1)..(1)
122 <223> OTHER INFORMATION: acetyl-proline
125 <400> SEQUENCE: 5
127 Xaa Xaa Gly Leu Leu
128 1
130 <210> SEQ ID NO: 6
131 <211> LENGTH: 5
132 <212> TYPE: PRT
133 <213> ORGANISM: Artificial
135 <220> FEATURE:
136 <223> OTHER INFORMATION
                              no comment
138 <220> FEATURE:
139 <221> NAME/KEY: MOD_RES
140 <222> LOCATION: (2)..(2)
```

RAW SEQUENCE LISTING

```
TIME: 15:15:26
                  PATENT APPLICATION:
                                        US/09/808,832
                  Input Set : A:\PTO.txt
                  Output Set: N:\CRF3\03302001\1808832.raw
  141 <223> OTHER INFORMATION: 4-aminobutyric acid
  144 <220> FEATURE:
  145 <221> NAME/KEY: MOD_RES
  146 <222> LOCATION: (1)..(1)
  147 <223> OTHER INFORMATION: acetyl-proline
  150 <400> SEQUENCE: 6
> 152 Xaa Xaa Gly Leu Leu
  153 1
  155 <210> SEQ ID NO: 7
  156 <211> LENGTH: 5
  157 <212> TYPE: PRT
  158 <213> ORGANISM:
                      Artificial
  160 <220> FEATURE:
  161 <223> OTHER INFORMATION:
                               no comment
  163 <220> FEATURE:
  164 <221> NAME/KEY: MOD_RES
  165 <222> LOCATION: (2)..(2)
  166 <223> OTHER INFORMATION: cyclohexylalanine
  169 <220> FEATURE:
  170 <221> NAME/KEY: MOD_RES
  171 <222> LOCATION: (1)..(1)
  172 <223> OTHER INFORMATION: acetyl-proline
 175 <400> SEQUENCE: 7
→ 177 Xaa Xaa Gly Leu Leu
  178 1
  180 <210> SEQ ID NO: 8
  181 <211> LENGTH: 5
  182 <212> TYPE: PRT
  183 <213> ORGANISM Artificial
  185 <220> FEATURE:
  186 <223> OTHER INFORMATION: no comment
  188 <400> SEQUENCE: 8
  190 Pro Leu Gly Leu Leu
  191 1
  193 <210> SEQ ID NO:
  194 <211> LENGTH: 5
  195 <212> TYPE: PRT
  196 <213> ORGANISM: Artificial
  198 <220> FEATURE:
  199 <223> OTHER INFORMATION(
                               no comment
  201 <220> FEATURE:
  202 <221> NAME/KEY: MOD_RES
  203 <222> LOCATION: (1)..(1)
  204 <223> OTHER INFORMATION: MeOCH2CH2OCH2(=0)-proline
  207 <400> SEQUENCE: 9
≥ 209 Xaa Leu Gly Leu Leu
  212 <210> SEQ ID NO: 10
  213 <211> LENGTH: 5
```

RAW SEQUENCE LISTING

TIME: 15:15:26

```
Input Set : A:\PTO.txt
                 Output Set: N:\CRF3\03302001\I808832.raw
 214 <212> TYPE: PRT
 215 <213> ORGANISM: Artificial
 217 <220> FEATURE:
 218 <223> OTHER INFORMATION
                               no comment
 220 <220> FEATURE:
 221 <221> NAME/KEY: MOD_RES
 222 <222> LOCATION: (1)..(1)
 223 <223> OTHER INFORMATION: MeOCH2CH2OCH2CH2OCH2C(=0)-proline
 226 <400> SEQUENCE: 10
228 Xaa Leu Gly Leu Leu
 229 1
 231 <210> SEQ ID NO: 11
 232 <211> LENGTH: 5
 233 <212> TYPE: PRT
                     Artificial
 234 <213> ORGANISM:
 236 <220> FEATURE:
 237 <223> OTHER INFORMATION
                               no comment
 239 <220> FEATURE:
 240 <221> NAME/KEY: MOD_RES
 241 <222> LOCATION: (1)..(1)
 242 <223> OTHER INFORMATION: H2NCH2CH2N(CH2CH2)2NCH2C(=0)-proline
 245 <400> SEQUENCE: 11
🔰 247 Xaa Leu Gly Leu Leu
 248 1
 250 <210> SEQ ID NO: 12
 251 <211> LENGTH: 5
 252 <212> TYPE: PRT
 253 <213> ORGANISM:
                      Artificial
 255 <220> FEATURE:
                              no comment
 256 <223> OTHER INFORMATION
 258 <220> FEATURE:
 259 <221> NAME/KEY: MOD_RES
 260 <222> LOCATION: (1)..(1)
 261 <223> OTHER INFORMATION: AcHNCH2CH2N(CH2CH2)2NCH2C(=0)-proline
 264 <400> SEQUENCE: 12
> 266 Xaa Leu Gly Leu Leu
 267 1
 269 <210> SEQ ID NO: 13
 270 <211> LENGTH: 5
 271 <212> TYPE: PRT
 272 <213> ORGANISM
                      Artificial
 274 <220> FEATURE:
                               no comment
 275 <223> OTHER INFORMATION
 277 <220> FEATURE:
 278 <221> NAME/KEY: MOD_RES
 279 <222> LOCATION: (1)..(1)
  280 <223> OTHER INFORMATION: Acn(CH2CH2)2NCH2C(=0)-proline
 283 <400> SEQUENCE: 13
285 Xaa Leu Gly Leu Leu
```

RAW SEQUENCE LISTING

PATENT APPLICATION:

US/09/808,832

DATE: 03/30/2001 RAW SEQUENCE LISTING US/09/808,832 TIME: 15:15:26 PATENT APPLICATION: Input Set : A:\PTO.txt Output Set: N:\CRF3\03302001\I808832.raw 288 <210> SEQ ID NO: 14 289 <211> LENGTH: 4 290 <212> TYPE: PRT 291 <213> ORGANISM: Artificial 293 <220> FEATURE: 294 <223> OTHER INFORMATION no comment 296 <220> FEATURE: 297 <221> NAME/KEY: MOD_RES 298 <222> LOCATION: (4)..(4) 299 <223> OTHER INFORMATION: O-benzyl-serine 302 <400> SEQUENCE: 14 **√** 304 Pro Leu Gly Xaa 307 <210> SEQ ID NO: 15 308 <211> LENGTH: 4 309 <212> TYPE: PRT 310 <213> ORGANISM Artificial 312 <220> FEATURE: 313 <223> OTHER INFORMATION no comment 315 <220> FEATURE: 316 <221> NAME/KEY: MOD_RES 317 <222> LOCATION: (1)..(1) 318 <223> OTHER INFORMATION: acetyl-proline 321 <400> SEQUENCE: 15 城)と 323 Xaa Leu Gly Leu 326 <210> SEQ ID NO: 16 327 <211> LENGTH: 5 328 <212> TYPE: PRT 329 <213> ORGANISM: Artificial 331 <220> FEATURE: 332 <223> OTHER INFORMATION no comment 334 <220> FEATURE: 335 <221> NAME/KEY: MOD_RES 336 <222> LOCATION: (1)..(1) 337 <223> OTHER INFORMATION: acetyl-glycine 340 <400> SEQUENCE: 16 ∕342 Xaa Pro Leu Gly Leu 345 <210> SEQ ID NO: 17 346 <211> LENGTH: 6 Please covert these evas in subsequent sequence, 347 <212> TYPE: PRT 348 <213> ORGANISM Artificial 350 <220> FEATURE: 351 <223> OTHER INFORMATION: no comment 353 <220> FEATURE:

Pleas N te:

354 <221> NAME/KEY: MOD_RES 355 <222> LOCATION: (1)..(1)

286 1

305 1

324 1

343 1

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing t ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n r Xaa.

VERIFICATION SUMMARY
PATENT APPLICATION: US/09/808,832
DATE: 03/30/2001
TIME: 15:15:27

Input Set : A:\PTO.txt

Output Set: N:\CRF3\03302001\1808832.raw

```
L:10 M:270 C: Current Application Number differs, Replaced Current Application No
L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:39 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:64 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:83 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:102 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:127 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:152 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:177 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:209 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9
L:228 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10
L:247 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11
L:266 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12
L:285 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13
L:304 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14
L:323 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15
L:342 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16
L:373 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17
L:398 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18
L:429 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19
L:460 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20
L:491 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21
L:516 \ M:341 \ W: \ (46) \ "n" \ or "Xaa" \ used, for SEQ ID#:22
L:541 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23
L:566 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24
L:591 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25
L:616 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26
L:641 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27
L:666 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28
L:691 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:29
L:710 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:30
L:729 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:31
L:748 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:32
L:773 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:33
L:804 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:34
L:823 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:35
L:842 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:36
L:861 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37
L:886 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:38
L:905 \ M:341 \ W: \ (46) \ "n" \ or "Xaa" \ used, for SEQ ID#:39
L:924 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:40
L:943 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:41
L:962 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:42
L:981 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:43
L:1000 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:44
L:1019 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:45
L:1038\ M:341\ W: (46) "n" or "Xaa" used, for SEQ ID#:46
L:1057 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:47
```



DATE: 03/30/2001 PATENT APPLICATION: US/09/808,832 TIME: 15:15:27

Input Set : A:\PTO.txt

Output Set: N:\CRF3\03302001\1808832.raw

L:1076 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:48 L:1095 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:49 L:1114 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:50 L:1133 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:51